

Congratulations and thanks for choosing EARMOR®
EARMOR® Hearing Protectors designed to protect users from harmful noise.

INTENDED USE

EARMOR® M23T AI suppresses hazardous noise while improving situational awareness and communication in harsh environments. Its lightweight and ergonomic design ensures long-lasting comfort during extended wear. Wireless Bluetooth 6.0 connectivity allows connection to external devices even in noise-reduction mode, enabling users to listen to music and answer or decline calls freely. AI-powered conversation and translation functions provide efficient information access and seamless cross-language communication. Features long battery life and convenient charging with the portable charging case.

SAFETY INFORMATION

Please read, understand, and follow all safety information in these instructions prior to using the product. Retain these instructions for future reference. For additional information or any questions, contact EARMOR® Technical Services (contact information listed on the last page). For correct use, consult your supervisor, refer to the User Instructions, or contact EARMOR®.

IMPORTANT USER INFORMATION

It is recommended that the user ensures that:

- 1.the earbuds are fitted, adjusted and maintained in accordance with the manufacturer's instructions;
- 2.the earbuds are worn at all times in noisy surroundings;
- 3.the earbuds are regularly inspected for serviceability;

Note: if the recommendations given are not adhered to, the protection afforded by the earbuds will be severely impaired;

Weight of hearing protector: 68±2g

Storage temperature:-20°C to 50°C

Note: Do not store the hearing protector behind a windshield or at temperatures above +50°C

TRANSPORT INFORMATION

The product is suitable for transport in original packaging.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
FCC ID: 2A4IK-M23

BATTERY DISPOSAL

This product has a non-replaceable lithium-ion battery. Many rechargeable batteries are required to be recycled by local, state/ province, and national laws. To properly recycle/dispose of the battery, always follow local solid waste disposal regulations.

NRR INFORMATION

The level of noise entering a person's ear, when these earbuds are worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the Noise Reduction Rating (NRR). Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fitting.

EARMOR® M23T AI Attenuation data, American National Standards Institute specifications: ANSI S3.19-1974

TEST FREQ.(HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR(dB)
MEAN	31.9	31.5	31.7	30.7	33.8	37.2	30.4	40.3	38.8	25
STD.DEV.	2.9	3.5	3.4	3.4	2.4	3.0	3.3	3.8	3.0	

Please note that the NRR is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise, such as gunfire.

CE APPROVALS

The PPE is audited annually (if Category III products) and type approved by CCQS Certification Services Limited (Notified Body No. 2834) and BSI Group The Netherlands B.V. (Notified Body No. 2797).

The applicable legislation can be determined by reviewing the Declaration of Conformity (DoC) at <https://www.earmor.com/certificates/Doc/>. A copy of the DoC (Declaration of Conformity) and additional information required in the Directives can also be obtained by contacting EARMOR® in the country of purchase. For contact information, see the last pages of this user instruction.

EARMOR® M23T AI have been tested and approved in accordance with

EN 352-2:2020+A1:2024 / EN 352-7:2020 / EN 352-9:2020+A1:2024 / EN 352-10:2020+A1:2024.

EN352-2+A1:2024

TEST FREQ.(HZ)	63	125	250	500	1000	2000	4000	8000	SNR(dB)
MEAN	27.9	30.3	30.4	31.1	31.4	35.2	30.0	38.8	31
STD.DEV.	4.3	3.8	3.6	3.3	3.6	3.5	2.9	3.8	
MEAN-SD	23.5	26.6	26.8	27.9	27.8	31.6	27.1	35	
SIZE: S, M, L	H84(dB)=30dB			Hm=32.2		Hs=2.2		SNRm=32.7	
	M84(dB)=29dB			Mm=31.3		Ms=2.5		SNRs=2.1	
	L84(dB)=28dB			Lm=30.9		Ls=2.9			

EN 352-7:2020

Impulsive	Impulsive noise (dBA)			Non-impulsive/continuous noise (dBA)		
	Minium	Result	Pass/Fail	Minimum	Result	Pass/Fail
H-criterion	85	>115.0	Pass	97	<115.0	Pass
M-criterion	85	>115.0	Pass	96	>115.0	Pass
L-criterion	85	>115.0	Pass	94	>115.0	Pass

EN352-9:2020+A1:2024 and EN352-10:2020+A1:2024

Input	Max DFE SPL (dBA)	Criterion level >82 dBA (dBFS)	Allowable exposure at Max DFE SPL (hrs)	Pass/Fail
EN352-9 Hands free	68.5	NA	>8	Pass
EN352-10 A2DP/Stereo	63.7	NA	>8	Pass

FC	Federal Communications Commission		
C € 2797	Mandatory conformity marking. CE mark below by Notified Body Number, The various components of the CE marking must have the same vertical dimension, and may not be smaller than 5mm.		
M23T Ai	Model Name/Number.		
EN352	EN352-2:2020+A1:2024. Hearing protectors — General requirements — Part 1: Earplugs EN352-7:2020. Hearing protectors. Safety requirements. Level-dependent earplugs EN352-9:2020+A1:2024. Hearing protectors - Safety Requirements - Part 9: Earplugs with Safety-Related Audio Input EN352-10:2020+A1:2024. Hearing protectors-Safety Requirements - Part 10: Entertainment Audio Earplugs		
EARMOR	Manufacturer's logo	03/2026	Date of manufacturer

Fig. A

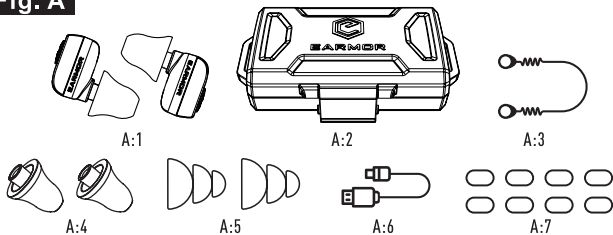


Fig. B

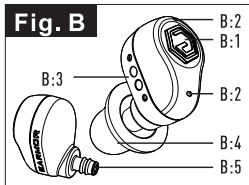


Fig. C

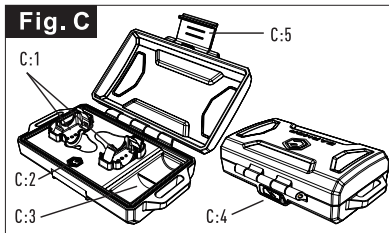
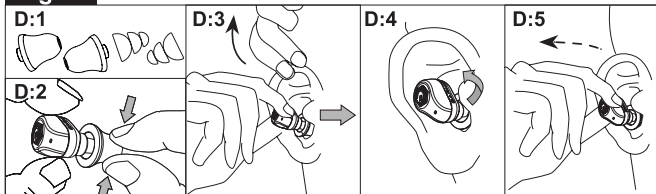
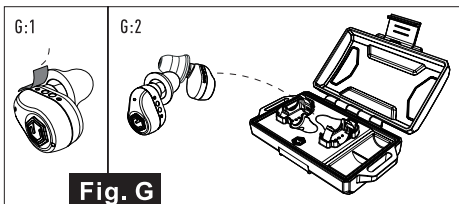
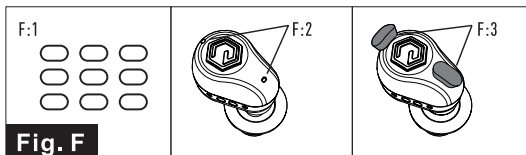
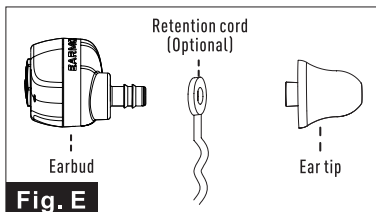


Fig. D





PRODUCT AND ACCESSORIES

1. Earbuds (Fig. A:1)
2. Charging case (Fig. A:2)
3. Retention cord (Fig. A:3)
4. Foam ear tips (S/M/L) (Fig. A:4)
5. Silicone ear tips (S/M/L) (Fig. A:5)
6. Type-C cable (Fig. A:6)
7. Windproof sponges (Fig. A:7)

PRODUCT COMPONENTS

Earbuds (Fig. B)

1. Multifunctional button (Fig. B:1)
2. Microphone *2 (Fig. B:2)
3. Charging contacts (Fig. B:3)
4. Ear tips (Fig. B:4)
5. Ear tips stem (Fig. B:5)

Charging case (Fig. C)

1. Earbuds charging receptacle (Fig. C:1)
2. Charging case button & indicator light (Fig. C:2)
3. Ear tips receptacle (Fig. C:3)
4. Type-C USB charging port (Fig. C:4)
5. Latch (Fig. C:5)

Battery

The earbuds and charging case feature built-in, non-removable lithium batteries.

FITTING INSTRUCTIONS

1. Choose the suitable size for your ear canal (Fig. D:1)
 2. Hold the earbuds to confirm that they are clean and dry, and rub the foam earplug between your fingers (Fig. D:2)
 3. Gently pull the ear upward and insert the earbuds into the ear canal (Fig. D:3)
 4. After inserting into the ear canal, hold the earbuds in place for about 30 seconds (Fig. D:4)
 5. Check that the ear tips size is appropriate (Fig. D:5)
- Try pulling the earbuds gently to make sure it won't come loose easily. If it comes out easily, please repeat the above steps

INSTALLATION INSTRUCTIONS

Attaching retention cord

Wear the appropriate size ear tip on the ear tip stem according to the corresponding direction (note: make sure that the fixing hole is completely consistent with the fixing post) (Fig. E)

1. To wear the retention cord, please fix one end of the retention cord to the earbuds stem
2. Install ear tips on the ear tips stem
3. Make sure that the ear tips are completely fixed on the ear tips stem

Attaching Windscreen

The windscreen may help minimize wind noise in high wind conditions. (Fig. F)

- 1.Remove a disposable windscreen from the perforated windscreen sheet backing (Fig. F:1).
- 2.Locate the earbuds microphone (Fig. F:2).
- 3.Carefully center the disposable windscreen over the microphone port and press the adhesive backed windscreen to the microphone port (Fig. F:3).
- 4.To detach, remove the windscreen and dispose when necessary. To attach, follow steps 1-3.

Note: After storing and/or recharging the earbuds in the charging case, it may be necessary to remove the old disposable windscreen and replace it with a new screen.

OPERATION INSTRUCTIONS

FIRST TIME USE:

- 1.Before use, please remove the insulation sticker from the earbuds (Fig. G:1)
- 2.Place them into the charging case for activation (Fig. G:2)

POWER ON & POWER OFF

POWER ON

Automatically turns on after the earbuds are taken out of the charging case.

OR

Press and hold the multi-function button on both earbuds simultaneously for 2 seconds.

POWER OFF

Automatically shuts down after the earbuds are placed in the charging case.

Note: When not in using, the earbuds will automatically power off after 2 hours.

OR

Press and hold any multi-function button for 5 seconds.

AMBIENT LISTENING MODE

Level	Voice prompt
Low	DO
Medium	DO
High	DO DO
Off	Ambient listening off

Press any multi-function button on the earbuds will cycle through the ambient sound pickup level with voice prompt.

Note:

- 1.Sound pickup automatically turns on after powering on. The factory default is medium sound pickup level.
- 2.Sound pickup and noise reduction are turned off when receiving or answering calls.

BLUETOOTH CONNECTION

Enter pairing mode

1.Upon first removal, the earbuds enter Bluetooth pairing mode.

2.If previously paired, the earbuds will automatically reconnect to the last connected device on power-on. If reconnection fails for more than 8 seconds, they will enter pairing mode.

Note: If pairing is unsuccessful for more than 3 minutes with no operation, Bluetooth will automatically turn off.

3.When Bluetooth is off, double-press any multi-function button to turn Bluetooth back on and enter pairing mode, or place the earbuds back in the case and remove them again to re-enter pairing mode.

Device connection

Enable Bluetooth on your phone, tablet, or other device. In the Bluetooth settings, search for "EARMOR M23T AI" and tap to connect.

MUSIC & PHONE CALLS OPERATION

Play / Pause	Double-press any multi-function button
Answer the call	Single-press any multi-function button
	Operate on the Bluetooth device
Reject call	Press and hold the multi-function button on either earbud for 2 seconds
End call	Single-press the multi-function button on either earbud
	Operate on the Bluetooth device
activate voice assistant	When not on a call, Press and hold the multi-function button on either earbud for 2 seconds

NOTE:

1.All operations are performed under Bluetooth connection.

2.During incoming calls, the ambient sound pickup and compression function is disabled.

3.The activated voice assistant is the phone's built-in assistant, not the EARMOR app assistant.

CHARGING CASE INSTRUCTIONS

Earbuds charging : Place the earbuds in the charging case, the indicator light of the charging case first displays the charging case battery level, then shows the earbuds' charging status, and finally turns off.

Charging case battery level

Flashes three times within one second	Battery level: 0~20%
Flashes two times within one second	Battery level: 20~50%
Stays on for 1 second	Battery level: > 50%

Earbuds' charging status

slowly breathes three times within four seconds	Charging in progress
Stays on for 4 seconds, then turns off	Battery level: > 95%

Charging case charging : Use the Type-C cable to connect the charging case to the power supply.

RESET

When the earbuds are not functioning properly, please follow these steps

1.Place the earbuds into the charging case.

2.Press and hold the charging case button for 10 seconds. The indicator light flashes 6 times, indicating the reset is complete.

Note: After resetting, remove the earbuds and they will automatically enter Bluetooth pairing mode.

DO MORE WITH THE APP

Download the EARMOR app to access more advanced features. [Fig.H]

MATERIAL

Earbuds: Plastics / Charging case: Plastics

SPECIFICATIONS

Bluetooth Version	V6.0
Battery	Earbuds: 45mAh*2
	Charging case: 400mAh
Sound Pickup Characteristics	Omnidirectional
Speaker Size	6mm
Storage Temperature Range	-20°C to 50°C
Weight	Earbuds: 4.2g*2
	Charging case: 59g

Cleaning and Maintenance

Charging case

Keep the interior of the charging case clean and free of dust and debris. Ensure that the charging pins make direct contact with the earbuds' charging contacts for proper charging. If debris is visible or charging issues occur, clean the contact points with a cotton swab or a soft cloth.

To maintain water resistance, keep the perimeter of the charging case and the sealing ring free of dirt or any materials that may prevent the case from closing properly. Always ensure the Type-C charging port cover is securely closed.

Ear tips

Remove and clean the earplugs routinely and more frequently for those who produce excess ear wax.